

RAW SEQUENCE LISTING  
PATENT APPLICATION US/07/800,364 BDATE: 02/23/95  
TIME: 10:51:44

INPUT SET: S2404.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

## (1) General Information:

(i) APPLICANT: Hewick, Rodney M.  
Wang, Jack H.  
Wozney, John M.  
Celeste, Anthony J.

ENTERED

(ii) TITLE OF INVENTION: Bone and Cartilage Inductive Proteins

(iii) NUMBER OF SEQUENCES: 15

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Legal Affairs, Genetics Institute, Inc.  
(B) STREET: 87 CambridgePark Drive  
(C) CITY: Cambridge  
(D) STATE: MA  
(E) COUNTRY: USA  
(F) ZIP: 02140

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 07/800,364  
(B) FILING DATE: 26-NOV-1991  
(C) CLASSIFICATION:

## (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Kapinos, Ellen J.  
(B) REGISTRATION NUMBER: 32,245  
(C) REFERENCE/DOCKET NUMBER: GI 5182A

## (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 617-876-1170  
(B) TELEFAX: 617-876-5851

## (2) INFORMATION FOR SEQ ID NO:1:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 amino acids

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47 (B) TYPE: amino acid  
48 (C) STRANDEDNESS: single  
49 (D) TOPOLOGY: unknown  
50  
51 (ii) MOLECULE TYPE: peptide  
52  
53 (iii) HYPOTHETICAL: NO  
54  
55 (iv) ANTI-SENSE: NO  
56  
57 (vi) ORIGINAL SOURCE:  
58 (F) TISSUE TYPE: Bone  
59  
60  
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
62  
63 Arg His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu Asp Trp  
64 1 5 10 15  
65  
66 Val Ile Ala Pro Gln Gly Tyr  
67 20  
68  
69 (2) INFORMATION FOR SEQ ID NO:2:  
70  
71 (i) SEQUENCE CHARACTERISTICS:  
72 (A) LENGTH: 18 amino acids  
73 (B) TYPE: amino acid  
74 (C) STRANDEDNESS: single  
75 (D) TOPOLOGY: unknown  
76  
77 (ii) MOLECULE TYPE: peptide  
78  
79 (iii) HYPOTHETICAL: NO  
80  
81 (iv) ANTI-SENSE: NO  
82  
83 (v) FRAGMENT TYPE: internal  
84  
85 (vi) ORIGINAL SOURCE:  
86 (A) ORGANISM: Bos taurus  
87 (F) TISSUE TYPE: Bone  
88  
89  
90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
91  
92 Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp Ser Ser Asn Asn Val Ile  
93 1 5 10 15  
94  
95 Leu Arg  
96  
97  
98 (2) INFORMATION FOR SEQ ID NO:3:  
99

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100 (i) SEQUENCE CHARACTERISTICS:  
101 (A) LENGTH: 7 amino acids  
102 (B) TYPE: amino acid  
103 (C) STRANDEDNESS: single  
104 (D) TOPOLOGY: unknown  
105  
106 (ii) MOLECULE TYPE: peptide  
107  
108 (iii) HYPOTHETICAL: NO  
109  
110 (iv) ANTI-SENSE: NO  
111  
112 (vi) ORIGINAL SOURCE:  
113 (A) ORGANISM: Bos taurus  
114 (F) TISSUE TYPE: Bone  
115  
116  
117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
118  
119 Ala Cys Cys Ala Pro Thr Lys  
120 1 5  
121  
122 (2) INFORMATION FOR SEQ ID NO:4:  
123  
124 (i) SEQUENCE CHARACTERISTICS:  
125 (A) LENGTH: 23 amino acids  
126 (B) TYPE: amino acid  
127 (C) STRANDEDNESS: single  
128 (D) TOPOLOGY: unknown  
129  
130 (ii) MOLECULE TYPE: peptide  
131  
132 (iii) HYPOTHETICAL: NO  
133  
134 (vi) ORIGINAL SOURCE:  
135 (A) ORGANISM: Bos taurus  
136 (F) TISSUE TYPE: Bone  
137  
138  
139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
140  
141 Thr Asn Glu Leu Pro Pro Pro Asn Lys Leu Pro Gly Ile Phe Asp Asp  
142 1 5 10 15  
143  
144 Val His Gly Ser His Gly Arg  
145 20  
146  
147 (2) INFORMATION FOR SEQ ID NO:5:  
148  
149 (i) SEQUENCE CHARACTERISTICS:  
150 (A) LENGTH: 80 base pairs  
151 (B) TYPE: nucleic acid  
152 (C) STRANDEDNESS: double

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153 (D) TOPOLOGY: linear  
154  
155 (ii) MOLECULE TYPE: DNA (genomic)  
156  
157 (iii) HYPOTHETICAL: NO  
158  
159 (iv) ANTI-SENSE: NO  
160  
161 (vi) ORIGINAL SOURCE:  
162 (A) ORGANISM: Bos taurus  
163  
164 (vii) IMMEDIATE SOURCE:  
165 (B) CLONE: acc30  
166  
167 (viii) POSITION IN GENOME:  
168 (C) UNITS: bp  
169  
170 (ix) FEATURE:  
171 (A) NAME/KEY: CDS  
172 (B) LOCATION: 25..57  
173  
174  
175 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
176  
177 GGATCCGCGT GCTGTGCTCC GACC AAG CTG AGC GCC ACC TCC GTG CTC TAC 51  
178 Lys Leu Ser Ala Thr Ser Val Leu Tyr  
179 1 5  
180  
181 TAC GAC AGCAGCAACA ATGTAATTCT AGA 80  
182 Tyr Asp  
183 10  
184  
185  
186 (2) INFORMATION FOR SEQ ID NO:6:  
187  
188 (i) SEQUENCE CHARACTERISTICS:  
189 (A) LENGTH: 11 amino acids  
190 (B) TYPE: amino acid  
191 (D) TOPOLOGY: linear  
192  
193 (ii) MOLECULE TYPE: protein  
194  
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
196  
197 Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp  
198 1 5 10  
199  
200 (2) INFORMATION FOR SEQ ID NO:7:  
201  
202 (i) SEQUENCE CHARACTERISTICS:  
203 (A) LENGTH: 199 base pairs  
204 (B) TYPE: nucleic acid  
205 (C) STRANDEDNESS: double

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206 (D) TOPOLOGY: linear  
207  
208 (ii) MOLECULE TYPE: DNA (genomic)  
209  
210 (iii) HYPOTHETICAL: NO  
211  
212 (vi) ORIGINAL SOURCE:  
213 (A) ORGANISM: Bos taurus  
214  
215 (vii) IMMEDIATE SOURCE:  
216 (A) LIBRARY: Bovine genomic  
217 (B) CLONE: Lambda 9800-10  
218  
219 (viii) POSITION IN GENOME:  
220 (C) UNITS: bp  
221  
222 (ix) FEATURE:  
223 (A) NAME/KEY: exon  
224 (B) LOCATION: 30..199  
225  
226 (ix) FEATURE:  
227 (A) NAME/KEY: intron  
228 (B) LOCATION: 1..29  
229  
230 (ix) FEATURE:  
231 (A) NAME/KEY: CDS  
232 (B) LOCATION: 30..179  
233  
234  
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
236  
237 TGCCCGCTGC CCCCTCCCGC CCCC GCCAG GTG CAC CTG CTG AAG CCG CAC GCG 53  
238 Val His Leu Leu Lys Pro His Ala  
239 1 5  
240  
241 GTC CCC AAG GCG TGC TGC GCG CCC ACC AAG CTG AGC GCC ACT TCC GTG 101  
242 Val Pro Lys Ala Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr Ser Val  
243 10 15 20  
244  
245 CTC TAC TAC GAC AGC AGC AAC AAC GTC ATC CTG CGC AAG CAC CGC AAC 149  
246 Leu Tyr Tyr Asp Ser Ser Asn Asn Val Ile Leu Arg Lys His Arg Asn  
247 25 30 35 40  
248  
249 ATG GTG GTC CGC GCC TGC GGC TGC CAC TGAGGCCCA ACTCCACCGG 196  
250 Met Val Val Arg Ala Cys Gly Cys His  
251 45 50  
252  
253 CAG 199  
254  
255  
256 (2) INFORMATION FOR SEQ ID NO:8:  
257  
258 (i) SEQUENCE CHARACTERISTICS:

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/07/800,364**

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Original Text